

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/700,032	11/03/2003	Hani Sabbah	1059.00096	3424	
7590 03/07/2006			EXAM	EXAMINER	
Amy E. Rinalo	ło		AFREMOVA, VERA		
KOHN & ASSOCIATES, PLLC Suite 410			ART UNIT	PAPER NUMBER	
30500 Northwestern Highway			1651		
Farmington Hills, MI 48334			DATE MAILED: 03/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/700,032	SABBAH ET AL.
Office Action Summary	Examiner	Art Unit
	Vera Afremova	1651
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 18.2  2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This 3) ☐ Since this application is in condition for allows closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) 3-5 and 8-14 is/are 5)  Claim(s) is/are allowed. 6)  Claim(s) 1,2,6 and 7 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	withdrawn from consideration. or election requirement.	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomplicated any accomplicate any accomplication and accomplication are described.  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and accomplication.  The oath or declaration is objected to by the Examin	cepted or b) objected to by the le drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_413)
<ul> <li>Notice of References Cited (PTO-692)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>8/19/04; 7/18/05</u>.</li> </ul>	Paper No(s)/Mail Da	

## **DETAILED ACTION**

## Election/Restrictions

Applicant's election with traverse of the Group I (claims 1 and 2) in the reply filed on 1/18/2006 is acknowledged.

The traversal is on the ground(s) that there is no serious burden in searching and examining all groups of claims. This is not found persuasive because different groups of claims are drawn to products and methods having different scope as claimed and, thus, the references that would be applied to one group of claims would not necessarily anticipate or render obvious the other group(s). Moreover, as to the question of burden of search, classification of subject matter is also an indication of the burdensome nature of the search involved. The literature search, particularly relevant in this art, is not co-extensive and is much more important in evaluating the burden of search. Burden in examining materially different groups having materially different issues also exists. Clearly different searches and issues are involved with each group. For these reasons, the restriction requirement is deemed proper and is adhered to. The restriction requirement is hereby made FINAL.

Upon applicants' request, further consideration and in order to promote efficiency of prosecution, the Group II claims 6 and 7 have been rejoined with the elected Group I (claims 1 and 2) as being drawn to similar methods.

Claims 3-5 and 8-14 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected groups of inventions, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 1/18/2006.

Application/Control Number: 10/700,032 Page 3

Art Unit: 1651

Claims 1, 2, 6 and 7 are under examination in the instant office action.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 6 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,387,369 (Pittenger et al).

Claims are directed to a method of treating head failure, improving cardiac function and enriching or regenerating damaged myocardium wherein the method comprises step of administering stem cell products to a heart in need of treatment or to a damaged myocardium stem cell products. Some claims are further drawn to administering the stem cell products intravenously, intracoronary or directly to the heart.

US 6,387,369 (Pittenger et al) discloses a method for producing cardiomycestes *in vivo* wherein the method comprises step of administering stem cell products such as MSCs directly to a heart (col. 6, line 31) or to directly into the damaged portion of myocardium (col. 2, lines 28-29). The cited patent teaches that MSC therapy can be provided by several route of administration including intravenously, intracoronary or directly to the heart (col. 4, lines 49-68). The cited reference anticipates the claimed invention because it teaches method comprising

identical active step and identical structural elements as required by the claimed invention and, therefore, the effects are identical as disclosed and as intended.

Claims 1, 2, 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomita et al. (IDS reference; Circulation, America heart Association. October 1998. Vol.98, NO. 17, Suppl. 27, pages 1-220).

Claims are directed to a method of treating head failure, improving cardiac function and enriching or regenerating damaged myocardium wherein the method comprises step of administering stem cell products to a heart in need of treatment or to a damaged myocardium stem cell products. Some claims are further drawn to administering the stem cell products intravenously, intracoronary or directly to the heart.

The cited reference by Tomita et al. discloses a method of treating head failure, improving cardiac function, enriching or regenerating damaged myocardium wherein the method comprises step of administering stem cell products such as mesenchymal stem cells (MSCs) directed to heart or to damaged myocardium. The reference teaches that transplantation of MSCs improved infracted heart function. Thus, the cited reference anticipates the clamed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vera Afremova whose telephone number is (571) 272-0914. The examiner can normally be reached from Monday to Friday from 9.30 am to 6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached at (571) 272-0926.

Art Unit: 1651

The fax phone number for the TC 1600 where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 1600, telephone number is (571) 272-1600.

Vera Afremova

AU 1651

March 3, 2006

VERA AFREMOVA

V. H

PRIMARY EXAMINER